

WHAT IS CLAIMED IS:

1. An image processing apparatus for subjecting a radiation image to an image processing, comprising:

5 an image processing condition storing section for storing an image processing condition when the radiation image is subjected to the image processing in accordance with a photography device type and a photography part when the radiation image is obtained;

10 a data obtaining section for obtaining the radiation image, and the photography device type and the photography part when the radiation image is obtained; and

15 an image processing section for reading the image processing condition for the same photography device type and photography part as the photography device type and photography part obtained by said data obtaining section from said image processing condition storing section, and subjecting the radiation image obtained by said data obtaining section to the image processing in accordance with
20 the read image processing condition.

2. An image processing apparatus for subjecting a medical image to an image processing, comprising:

25 an image processing condition storing section for storing an image processing condition when the medical image is subjected to the image processing in accordance with a photography device type and a photography condition when the

medical image is obtained;

a data obtaining section for obtaining the medical image, and the photography device type and the photography condition when the medical image is obtained; and

5 an image processing section for reading the image processing condition for the same photography device type and photography condition as the photography device type and photography condition obtained by said data obtaining section from said image processing condition storing section, and
10 subjecting the medical image obtained by said data obtaining section to the image processing in accordance with the read image processing condition.

3. The image processing apparatus according to
15 claim 2 wherein said image processing section subjects the medical image obtained by said data processing section to at least a gradation conversion processing and a frequency emphasis processing, and

20 said image processing condition storing section stores a frequency emphasis function indicating a degree of frequency emphasis in which a gradation conversion function and an average density around respective points of the medical image are used as variables in accordance with the photography device type and the photography condition.

25 4. The image processing apparatus according to claim 3 wherein before the gradation conversion processing,

said image processing section subjects the medical image obtained by said data obtaining section to a luminance correction processing using a dynamic range compression function in which the average density around the respective
5 points of the medical image is used as the variable.

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5. The image processing apparatus according to claim 2, further comprising an image processing condition operating section for adding, changing, and deleting said image processing condition in response to an operation.

6. The image processing apparatus according to claim 2, further comprising an image display section for displaying the medical image subjected to the image processing by said image processing section.

7. The image processing apparatus according to claim 6, further comprising an interested area designating section for designating a desired area of interest on the
20 medical image displayed in said image display section in response to the operation,

wherein said image display section lowers a luminance of an area excluding the area of interest designated by said interested area designating section to
25 display the medical image.

8. The image processing apparatus according to

claim 7 wherein said interested area designating section designates the desired area of interest on the medical image displayed in said image display section and designates a coefficient indicating a degree of drop of the luminance of the area excluding the area of interest in response to the operation, and

said image display section lowers the luminance of the area excluding the area of interest designated by said interested area designating section down to the luminance in accordance with the coefficient designated by said interested area designating section to display the medical image.

9. The image processing apparatus according to claim 7, further comprising a part recognizing section for recognizing positions of a plurality of parts appearing in one medical image,

wherein said image processing section subjects the area of interest designated by said interested area designating section to the image processing in accordance with the part appearing in the area of interest among the parts recognized by said part recognizing section.

10. The image processing apparatus according to claim 7 wherein said image display section arranges and displays a plurality of medical images, and

said image display section applies the same area of interest as the area of interest designated by said

interested area designating section with respect to one medical image among the plurality of medical images displayed in the image display section to the plurality of medical images, and lowers the luminance of the area excluding the area of interest of each medical image to display the plurality of medical images.

11. The image processing apparatus according to claim 6, further comprising a scanning processing designating section for designating a scanning processing of setting the area of interest on the medical image displayed in said image display section and moving the area of interest in a predetermined direction in response to the operation,

wherein said image display section displays the medical image in which the area of interest successively moves, and the luminance of the area excluding the area of interest is lowered in response to designation of the scanning processing by said scanning processing designating section.

12. The image processing apparatus according to claim 11, further comprising a part recognizing section for recognizing positions of a plurality of parts appearing in one medical image,

wherein said image processing section subjects the successively moving area of interest to the image processing in accordance with the part appearing in the successively

moving area of interest among the parts recognized by said part recognizing section.

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13. The image processing apparatus according to claim 10 wherein said image display section sets the same area of interest in the same position at the same timing and arranges and displays a plurality of images in which the area of interest synchronously moves at the same speed in response to the designation of the scanning processing by said scanning processing designating section.

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14. The image processing apparatus according to claim 2 wherein said data obtaining section obtains a radiation image as said medical image.

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15. An image processing method for subjecting a medical image to an image processing, comprising steps of:
20 storing an image processing condition for subjecting the medical image to the image processing in accordance with a photography device type and a photography condition when the medical image is obtained; and

25 obtaining the medical image, and the photography device type and the photography condition when the medical image is obtained, and subjecting the obtained medical image to the image processing in accordance with the image processing condition for the same photography device type and photography condition as the obtained photography device type

and photography condition.

16. An image processing program storage medium in which a program for operating a computer system as an image processing apparatus for subjecting a medical image to an image processing is stored,

wherein said image processing program comprises:

a data obtaining section for obtaining the medical image, and a photography device type and a photography condition when the medical image is obtained; and

an image processing section for subjecting the medical image obtained by said data obtaining section to the image processing in accordance with an image processing condition for the same photography device type and photography condition as the photography device type and photography condition obtained by the data obtaining section.

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